

ABSTRACT OF THE DISCLOSURE

A method, system, and apparatus for increasing the efficiency and robustness of the compression of a communication protocol for communication between entities over bandwidth limited communication links. The present invention uses the request-reply nature of communication protocols to update compression and decompression dictionaries. Each communication entity will update its dictionary with a new message as soon as it is known that the other communication entity has access to the message. In one aspect of the present invention, an entity updates a compression/decompression dictionary by updating the dictionary with sent messages as soon as a reply arrives from the other entity, and by updating the dictionary with received messages immediately. In another aspect of the present invention, received messages are used to update an entity's decompression dictionary and sent messages are used to update an entity's compression dictionary.